

Terminology

Cybersecurity

By: Pr MA. RIAHLA

Terminology

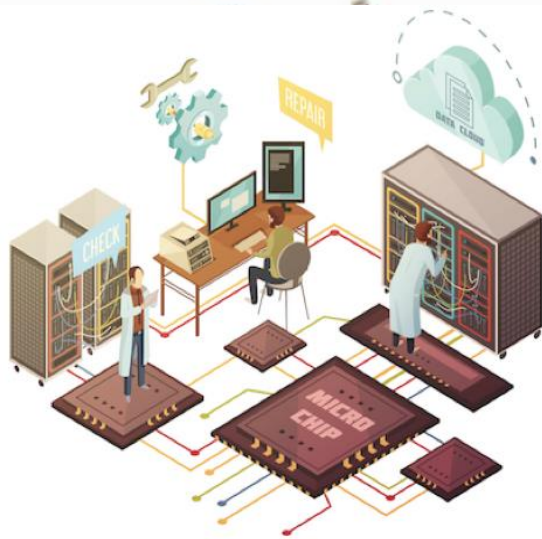
- ❑ Actif → Asset : عنصر مهم
- ❑ Vulnérabilité → Vulnerability: هشاشة
- ❑ Incident → Incident: حادث
- ❑ Menace → Threat : تهديد
- ❑ Risque → Risk: مخاطرة
- ❑ Attaque → Attack : هجوم
- ❑ Contre-mesures → Countermeasures : إجراء مضاد

Assets

Assets

Anything that has value to the organization

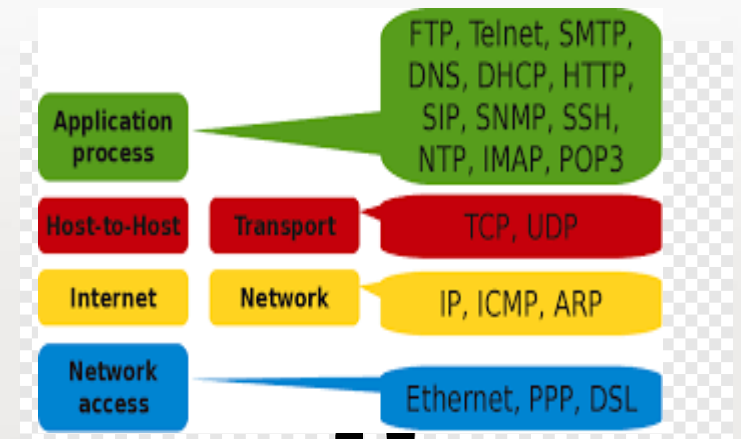
Assets can be:



Infrastructures



Information



Services and protocols

Vulnerability

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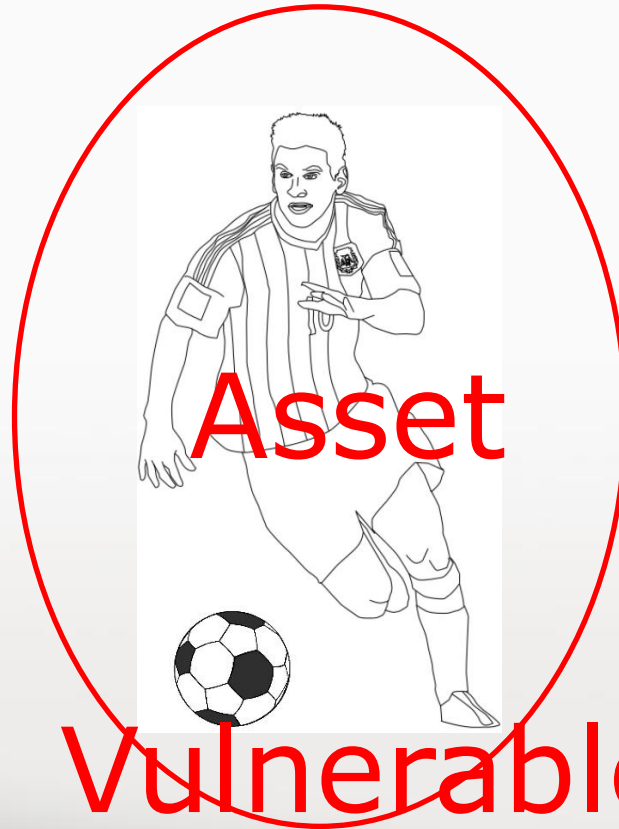
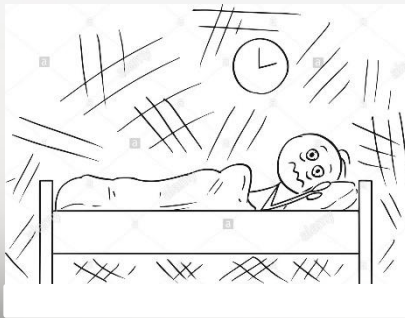
Vulnerability

A **weakness** in an **asset**



A **weakness** that can be exploited by a **threat**.

Vulnerability



~~Vulnerable~~

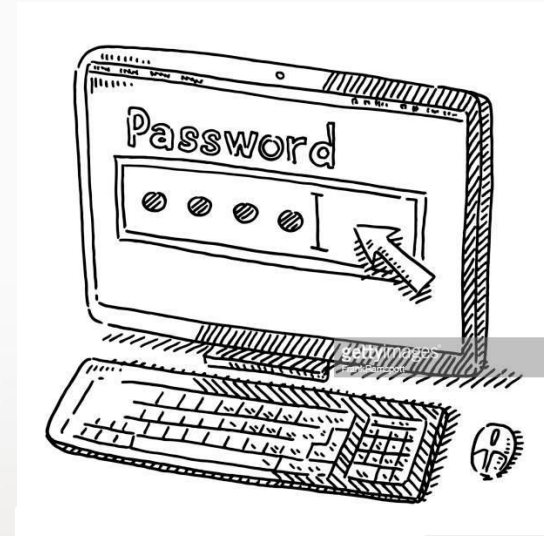
Vulnerability



No antivirus or
antivirus without
updates.



~~Vulnerable~~



No password or
weak password.

Vulnerability

We're talking about pentesting: a field focused on studying vulnerabilities



Vul 1



Vul 2



Vul n



Incident

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Incident

A malfunction reported by an end user.



Incident



Security threat.

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Threat

- A potential cause of an incident: anything that can exploit a vulnerability on an asset to breach security.
- It could lead to damage to an asset if this threat materializes.



Threat



Pas d'antivirus ou
Antivirus sans MAJ



Risk

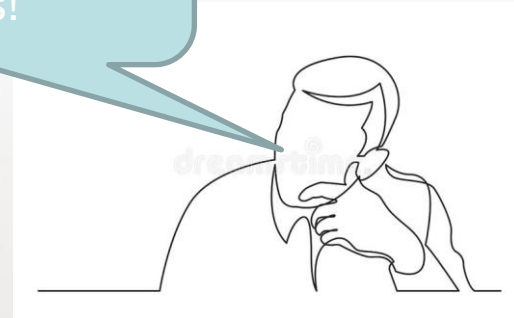
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Risk

The probability of an IT threat becoming a real event leading to a loss.



This player doesn't eat organic, he risks injuries!



$$\text{Risk} = \text{threat} \times \text{Vulnerability} \times \text{Asset}$$

Attack

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Attack

A deliberate and malicious action aimed at causing damage to **assets**. It is the realization of a **threat** and requires the exploitation of a **vulnerability**



Countermeasure

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Countermeasure

A defensive cybersecurity measure in the form of a technique, device, or procedure, aimed at preventing an **incident** or countering an **attack** that could compromise **assets**.



Countermeasure

Preventive



Corrective



Countermeasure

Préventive



Update before an incident occurs



Corrective



Maintenance

"There you have it! You've understood everything."



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